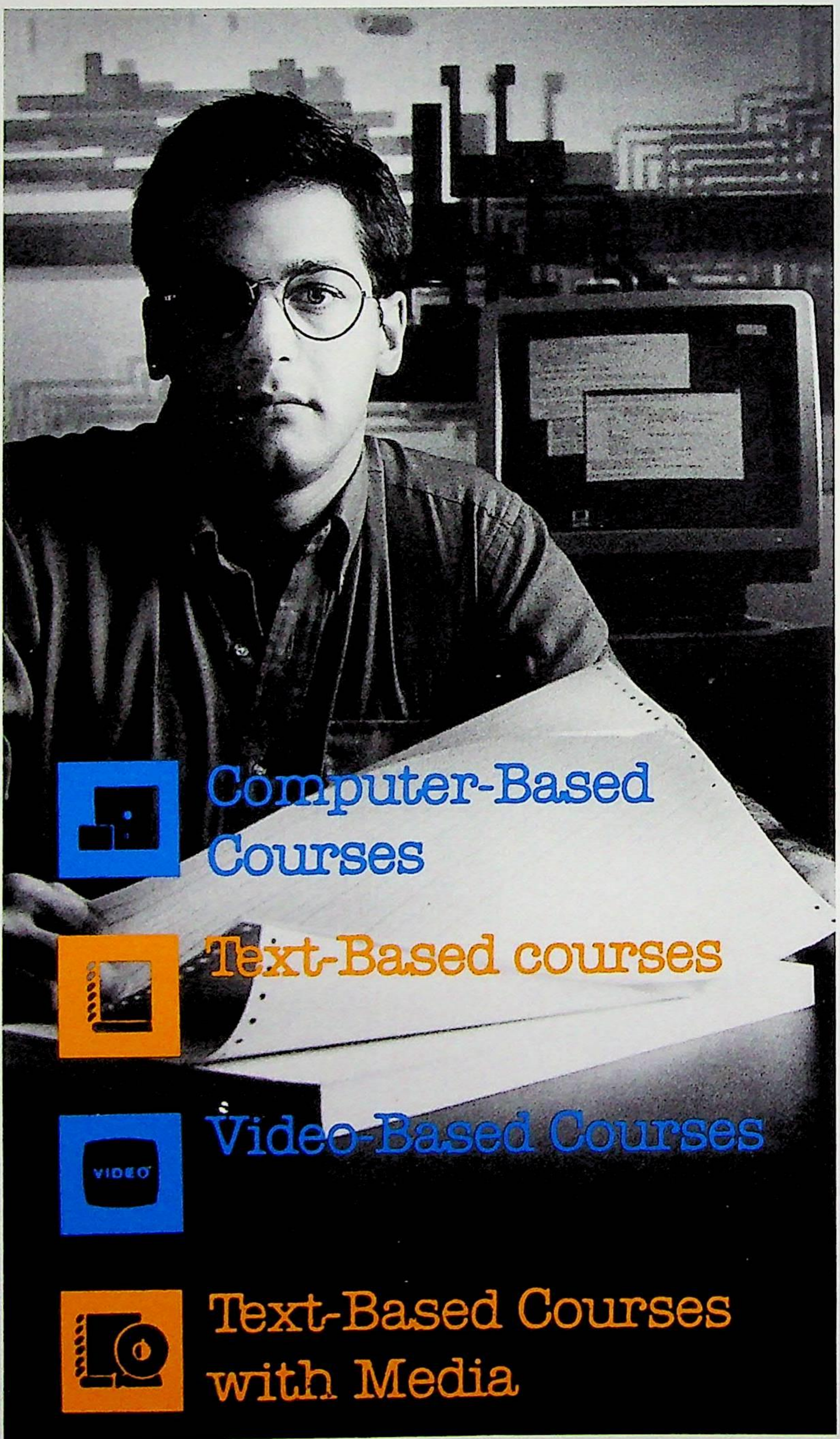
קורסים ללימוד עצמי
מרכז הדרכה

digital



אגף ההדרכה של דיגיטל שמח בזה להגיש את הקטלוג הראשון של קורסים ללמוד עצמי.

קטלוג זה מכיל תאורי קורסים הנתנים לרכישה לצורך למידה עצמית במתקני הלקוח במגוון של אמצעים החל מספרי הדרכה דרך מערכות וידאו ועד ללמוד עצמי ממוחשב.

שיטת לימוד זו היא מהירה, נוחה ויעילה. על כן ראינו צורך להציע ללקוחותנו קורסים אלה, חלקם כמשלימים לקורסים הנתנים במתקני ההדרכה שלנו, וחלקם כקורסים העומדים בפני עצמם. מגוון הנושאים המוצעים ומחירים סבירים מאפשרים לכל אחד לבחור לעצמו את הקורסים הרלונטים ולנצל שיטת הדרכה זאת לפתוחו וקדומו של כל אחד בארגון.

אנו נשמח לעמוד לרשותכם לפרטים נוספים. אנא התקשרו למרכז ההדרכה, טל. 052-548273.

בברכה,

עמנואל פרץ
מנהל אגף ההדרכה

את הקורסים ללימוד עצמי ניתן להזמין באחד הפורמטים הבאים:

לימוד באמצעות מחשב (CBI - Computer Based Instruction) - קורסים אותם ניתן ללמוד בעבודה אינטראקטיבית עם המחשב ושמוש בספרי עזר.

הדרכה באמצעות מכשיר וידאו (Video Based Instruction) - קסטות וידאו בשיטת VHS או UMATIC

הדרכה באמצעות טקסט (Text Based Instruction) - ספר הדרכה

הדרכה משולבת של טקסט ואמצעי מגנטי (Text Based Course with Media)

הנחות על כמויות

אנו שמחים להציע הנחות להזמנות בהתאם לטבלה הבאה:

הנחה	כמות קורסים מחזמנת
7%	3-5
10%	6-8
12%	9+

תנאים כלליים

1. כללי

שרותי ההדרכה ומוצרי ההדרכה ניתנים ע״י דיגיטל אקויפמנט (דק) בע״מ ("דיגיטל") בכפיפות לתנאים כלליים אלה ול-STANDARD TERMS & CONDITIONS של דיגיטל אקויפמנט קורפוריישן ("היצרן").

"שרותי הדרכה"
שרותי הדרכה לשימוש במוצרי חומרה ותוכנה של היצרן, לרבות, אך מבלי לגרוע מכלליות האמור, סמינרים קורסים הניתנים בכיתות לימוד, קורסים ייחודיים המוזמנים ע״י הלקוח וקורסים הניתנים במתקני הלקוח.

"מוצרי הדרכה"
מוצרי עזר לסיוע במתן שרותי ההדרכה, לרבות אך מבלי לגרוע מכלליות האמור טקסטים להדרכה (TBI- TEXT BASED INSTRUCTION), הדרכה באמצעות מחשב (CBI - COMPUTER BASED INSTRUCTION), הדרכה באמצעות מכשיר וידאו - (VBI - VIDEO BASED INSTRUCTION), הדרכה אינטראקטיבית באמצעות מכשיר וידאו (IVIS) וספרות בהוצאת DIGITAL PRESS.

"מחירים"
מחיר שרותי ההדרכה ומוצרי ההדרכה יהיה כמפורט במחירון דיגיטל הישים באותה עת, הוא יהיה נקוב בדולרים של ארה״ב וישולם לפי השער היציג של הדולר ביום התשלום בפועל. בנוסף למחירים, ישלם הלקוח את כל המיסים וההטלים החלים על פי החוק. המחירים ניתנים לשינוי ללא הודעה מוקדמת ללקוח.

2. רשיונות שימוש

2.1 השימוש במוצרי הדרכה באמצעות מחשב (CBI) כפוף לתנאים הבאים: —

(1) הלקוח רשאי להשתמש במוצרים אלה אך ורק על המחשב עליו הם הופעלו לראשונה;

(2) הלקוח לא יעתיק ולא ישנה את התוכנה הנכללת במוצרי ההדרכה ("לומדה" - COURSEWARE) ולא ימזגה עם לומדה אחרת כלשהי מלבד בדרך שנקבעה בלומדה עצמה;

(3) הלקוח רשאי להשתמש באופן זמני בלומדה על מחשב אחר, במקרה והמחשב עליו הופעלה הלומדה לראשונה אינו תקין. חלק מתוכנות הלומדה עשויות לכלול אמצעים המונעים את העברתן ממחשב אחד למשנהו. תוכנות אלה תסומנה כבאלה;

(4) הלקוח רשאי להעביר לצד שלישי רשיון שימוש זה ואת תוכנת הלומדה, ביחד עם המחשב עליו היא הופעלה לראשונה בתנאי כי: -

א. הצד השלישי מסכים לכל תנאי רשיון שימוש זה.

ב. הלקוח יודיע לדיגיטל את שמו וכתובתו של הצד השלישי ואת המספר הקטלוגי של תוכנת הלומדה; וכן

ג. הלקוח לא ישאיר בחזקתו עותקים כלשהם של תוכנת הלומדה.

2.2 השמוש במוצרי ההדרכה באמצעות וידיאו (VBI, IVIS) כפוף לתנאים הבאים: -

(1) הרשיון לשמוש במוצרי הדרכה באמצעות וידיאו הוא אך ורק לשמוש הלקוח למטרותיו העצמיות;

(2) הבעלות על מוצרי ההדרכה באמצעות וידיאו תשאר בידי דיגיטל ולא תעבור ללקוח;

(3) הלקוח רשאי להעביר לצד שלישי רשיון שמש זה ואת תוכנת הלומדה, ביחד עם המחשב עליו היא הופעלה לראשונה בתנאי ש: -

א. הצד השלישי מסכים לכל תנאי רשיון שמוש זה.

ב. הלקוח יודיע לדיגיטל את שמו וכתובתו של הצד השלישי ואת המספר הקטלוגי של תוכנת הלומדה.

ג. הלקוח לא ישאיר בחזקתו עותקים כלשהם של תוכנת הלומדה.

2.3 דיגיטל ו/או היצרן הן בעלות זכויות היוצרים ו/או כל זכויות קניין רוחני אחרות בכל מוצרי ההדרכה המסופקים על-ידן, ואין להעתיק מוצרים אלה, לשכפלם, או להעבירם לאחר ללא רשות מראש ובכתב מאת דיגיטל.

3. הגבלת אחריות

3.1 מסרה דיגיטל ללקוח מוצר הדרכה פגום, יהיה הלקוח רשאי להחזירו לדיגיטל תוך 14 יום מיום שקיבלו לחזקתו והוא יהיה זכאי להחלפתו במוצר אחר או להחזר המחיר ששולם עבורו.

3.2 דיגיטל לא תהיה אחראית לכל נזק, הוצאה או אבדן, לרבות אבדן נתונים או רווח מנוע שיגרמו ללקוח באופן ישיר או עקיף כתוצאה משימוש במוצרי הדרכה או קבלת שרותי הדרכה מאת דיגיטל. כמו כן לא תישא דיגיטל בכל אחריות לתביעות שיוגשו נגד הלקוח ע״י צד שלישי, שעילתן שימוש ע״י הלקוח במוצרי הדרכה או חוסר היכולת להשתמש במוצרי ההדרכה, אף אם ניתנה לדיגיטל הודעה על אפשרות שתוגש תביעה כאמור.

רשימת קורסים

VMS SYSTEM

UNIX SYSTEM

RSX SYSTEM

PROGRAMMER PRODUCTIVITY

DATA MANAGEMENT

LANGUAGES

OFFICE APPLICATION

ARTIFICIAL INTELLIGENCE

WORKSTATIONS

VMS SYSTEM

INTRODUCTION TO COMPUTER SYSTEMS

Get off to the right start. Gain invaluable understanding of how computers work, programming logic and computer terminology.

Who will benefit: Potential operators, application and system programmers, system managers - anyone who must interface with computer systems or access programs.

You'll learn to:
- Understand commonly used computer terms
- Identify major hardware components and software applications of an interactive computer system
- Perform arithmetic operations involving binary, decimal and hexadecimal numbers and convert one number base to another
- Describe instructions and programming at three levels: machine code, assembly language and high-level language
- Recognize and use flowchart symbols and programming techniques such as loops, branches and subroutines

Prerequisites: None.
System requirements: None.
Time estimate: 5 days.

Course Materials: Student guide, 14 videotapes, 14 student workbooks, administrator guide, flowcharting template.

Order Number	*Course Package*	*Price*
EY-2669E-VH-B6	VHS	$2,744
EY-26693-VU-B6	Umatic	$2,744
EY-2669E-AX-B6	Administrator Guide	$69
EY-2669E-SP-B6	Additional Student Package (supports 1 student)	$244

VIDEO

Video-based courses

INTRODUCTION TO EDT

Develop EDT editing skills with ease. Streamline all work. Manage the most complex editing tasks. Save time and increase efficiency.

Who will benefit: Managers, programmers and administrative personnel in both business and scientific communities.

You'll learn to:
- Create and edit files
- Save and discard edited files
- Access the EDT help facility
- Use the keypad and line modes to edit text
- Edit text in more than one buffer
- Use EDT's advanced features

Prerequisites: Digital's Introduction to VMS course.
System requirements: Access to a VMS system running V4.2 or later version.
Time estimate: 1 day.

Course Materials: A student package, an administrator guide and appropriate course media.

Order Number	*Course Package*	*Price*
EY-3500E-TK-B6	TK50 Tape	$719
EY-3500E-RX-B6	RX50 Floppy	$719
EY-3500E-MT-B6	1600 BPI Magtape	$719
EY-3500E-SP-B6	Additional Student Package (supports 10 students)	$44

Computer-based courses

INTRODUCTION TO EVE

Become proficient at EVE text editor commands. Increase your productivity. Enter commands and see immediate results.

Who will benefit: All VMS users who want to take advantage of the EVE editor.

You'll learn to:
- Use keyboard and keypad to enter text and move cursor
- enter line commands to format text
- Use many advanced features of this versatile editor

Prerequisites: Introduction to VMS.
System requirements: Access to a VT100 with advanced video option or VT200 series terminal attached to a VAX computer system, VAXTP or EVE V2.0 and VMS operating system running V5.0 or later version.
Time estimate: 1 day.

Course Materials: Administrator guide, installation procedure, student card and appropriate media.

Order Number	*Course Package*	*Price*
EY-3514E-TK-B6	TK50 Tape	$719
EY-3514E-RX-B6	RX50 Floppy	$719
EY-3514E-MT-B6	1600 BPI Magtape	$719
EY-3514E-SP-B6	Additional Student Package (supports 10 students)	$44

Computer-based courses

VMS SYSTEM

MULTIPROCESSING SYSTEMS AND APPLICATIONS CONCEPTS

Get an overview of Digital multiprocessor systems. Prepare to determine which systems best meet your organizational needs.

Who will benefit: Programmers, system managers and MIS managers seeking knowledge about the features.

You'll learn to:
- Determine which characteristics of a Local Area Network can benefit an application
- Determine which characteristics of a VAXcluster can benefit an application
- Determine which characteristics of a tightly coupled multiprocessor can benefit an application
- Use the general concepts of multiprocessor application design
- Determine which tools and VMS features can be used to implement a given multiprocessor application

Prerequisites: VMS Utilities and Commands course or equivalent knowledge.
System requirements: None.
Time estimate: 2 days.

Course Materials: Four videotapes, two copies of student workbook and an administrator guide.

Order Number	*Course Package*	*Price*
EY-3487E-VH-B6	VHS	$3,494
EY-3487E-VU-B6	Umatic	$3,494
EY-3487E-SP-B6	Additional Student Package (supports 2 students)	$244

Video-based courses

VMS SYSTEM ARCHITECTURE

get ready to perform tasks required of programmers and system managers. Start with a conceptual overview of the VMS operating system and the VAX architecture.

Who will benefit: System managers, system programmers, application programmers, system support personnel and other technical VMS users.

You'll learn to:
- Understand the purpose of the hardware components that make up VAX systems; the implementations of VAX hardware; the components that characterize VAX architecture and the VMS operating system
- Understand the purpose of process management on a VMS system
- Describe the purpose of the communication and synchronization services
- Know the components and function of the I/O system
- Understand how RMS works
- Describe the functions and workings of memory management
- Describe the purpose of the most significant optional (layered) software products
- Function within the I/O system

Prerequisites: Digital's VMS Utilities and Commands or equivalent knowledge and experience.
System requirements: Access to VHS or Umatic video machine.
Time estimate: 3 days.

Course Materials: Eight video tape modules and student workbooks, a course student guide and an administrator guide.

Order Number	*Course Package*	*Price*
EY-3496E-VH-B6	VHS	$5,494
EY-3496E-VU-B6	Umatic	$5,494
EY-3496E-AX-B6	Additional Administrator Guide	$106
EY-3496E-SP-B6	Additional Student Package (supports 1 student)	$206

Video-based courses

INTRODUCTION TO THE VAXTPU PROGRAMMING LANGUAGE

Get through the steps quickly and easily. Get ready to create and implement VAXTPU programs. Discover all the special features and hardware of the VAX Text Processing Utility.

Who will benefit: All who wish to use VAXTPU to create text processing applications.

You'll learn to:
- Describe the major components, constraints, and features of the VAX Text Processing Utility
- Use the appropriate DCL commands and command qualifies to set up the desired interface
- Locate selected procedures that tailor that EVE interface, using the VAXTPU programming language
- Use the VAXTPU documentation as an aid to writing VAXTPU programs

Prerequisites: Experience in writing, compiling and linking programs in at least one high level language. Also, knowledge of VMS to: create and modify text files, using some screen-oriented text editor and a VT100 or VT200 series terminal. And manipulate text files using DCL commands.
System requirements: Access to the following: a VT100; series terminal or VT200 (an ANSI CRT is required); VMS V5.0 or greater with VAXTPU included; an account with a subprocess quota of at least two.
Time estimate: 1/2 day.

Course Materials: Two student guides, a manager guide and appropriate course media.

Order Number	*Course Package*	*Price*
EY-3516E-MT-B6	1600 BPI Magtape	$431
EY-3516E-RX-B6	RX50 Floppy	$431
EY-3516E-TK-B6	TK50 Tape	$431
EY-3516E-SP-B6	Additional Student Package (supports 1 student)	$137

Text-based with media courses

VMS SYSTEM

USING THE VAX/VMS SYMBOLIC DEBUGGER

Quickly and easily locate programming errors. And correct them ... symbolically. Learn the features. Discover how to control program execution and evaluate expressions. Debug in screen mode. More.

Who will benefit: The experienced programmer who has experience in at least one VAX programming language, and can read and understand a FORTRAN program.

You'll learn to:
- Identify the features and functionality provided by the debugger
- Invoke the debugger help facility
- Use the debugger to examine and change program variables
- Use the debugger to display program source code while debugging a program
- Use the following debugger features while debugging a program: screen mode and keypad input; convenience features

Prerequisites: Digital's VMS System Architecture, Programming in VAX FORTRAN, and any version of the utilizing VMS Features courses or equivalent experience.
System requirements: Access to a VMS V5.0 or later version system with VAX FORTRAN V5.0.
Time estimate: 2 days.

Course Materials: One workbook, an administrator guide and course media.

Order Number	*Course Package*	*Price*
EY-2695E-MT-B6	1600 BPI Magtape	$556
EY-2695E-RX-B6	RX50 Floppy	$556
EY-2695E-TK-B6	TK50 Tape	$556
EY-2695E-SP-B6	Additional Student Package (supports 1 student)	$206

Text-based with media courses

UNIX SYSTEM

OVERVIEW OF UNIX SYSTEMS CONCEPTS

See the forest and the trees. Designed for the beginner and expert alike. Learn fundamentals. Explore features. Benefit from making better decisions about your computer resources. Extremely helpful glossary of common UNIX terms included.

Who will benefit: UNIX and ULTRIX system users, software decision makers, potential UNIX system managers, application and system programmers who want to learn the fundamentals of UNIX systems.

You'll learn to:
- Develop a basic understanding of the UNIX system computing environment
- Make decisions regarding the use of computer resources based on a knowledge of UNIX software

Prerequisites: Digital's Introduction to Computer Systems or equivalent knowledge in software and hardware fundamentals of interactive computing.
System requirements: None.
Time estimate: 1/2 day.

Course Materials: One videotape and ten student reference guides.

Order Number	*Course Package*	*Price*
EY-2679E-VH-B6	VHS	$306
EY-2679E-VU-B6	Umatic	$306
EY-2679E-SP-B6	Additional Student Package (supports 10 students)	$69

VIDEO

Video-based courses

TEXT PROCESSING ON UNIX SYSTEMS

Learn all the features that benefit users and programmers. Get an indepth look at filters. Profit from this intensive introduction to the use of regular expressions for pattern matching. Plus, everything necessary to take full advantage of ASCII utilities.

Who will benefit: New system users and programmers who would like to increase their knowledge of text processing commands and utilities on a UNIX and ULTRIX system.

You'll learn to:
- Select lines of text through regular expression specifications
- Make use of advanced features of the VI editor
- Format documents with NROFF
- Use the table and equation processing utilities
- Make use of the sort utility
- Use AWK to retrieve information from files

Prerequisites: Digital's Overview of UNIX Systems Concepts and Introduction to UNIX Operating Systems.
System requirements: Access to a computer system running UNIX or ULTRIX-32 is recommended.
Time estimate: 3 days.

Course Materials: A student workbook and required ULTRIX-32 reference documentation.

Order Number	*Course Package*	*Price*
EY-2232E-PO-B6	Course Package	$344

Text-based courses

RSX SYSTEM

RSX-11M PLUS UTILITIES AND COMMANDS

For a conceptual overview of the RSX-11M operating system, take this course. Find out how to use it for your MACRO-11, FORTRAN, COBOL and BASIC-PLUS-2 programs. Gain the skill and knowledge to get the max from your RSX-11M.

Who will benefit: Application and system programmers and system managers.

You'll learn to:
- Use command languages to interact with the system
- Create files and maintain both files and a file directory
- Assemble, compile and task build supplied programs and control their execution

Prerequisites: Digital's Introduction to Computer Systems or equivalent knowledge.
System requirements: Access to an RSX-11M V4.2 operating system with FORTRAN-77 V5 installed.
Time estimate: 5 days.

Course Materials: One administrator guide, two student workbooks, one test book and appropriate media.

Order Number	*Course Package*	*Price*
EY-6723E-MT-B6	1600 BPI Magtape	$719
EY-6723E-SP-B6	Additional Student Package (supports 1 student)	$344

Text-based with media courses

RSX-11M UTILITIES AND COMMANDS

Take advantage of the RSX-11M's program development capabilities. See how it works for your MACRO-11, FORTRAN, COBOL and BASIC-PLUS-2 programs. Learn how to use MCR or DCL command language to interact with the system. Create files and more.

Who will benefit: Application and system programmers and system managers.

You'll learn to:
- Develop and run programs on the RSX-11M operating system
- Interact with the system and other programs
- Use a terminal to communicate with the directory
- Assemble, compile and task build supplied programs and control their execution
- Create, maintain and use libraries

Prerequisites: Digital's Introduction to Computer Systems or equivalent knowledge.
System requirements: Students should have access to an RSX-11M V4.2 operating system with FORTRAN-77 V5 installed.
Time estimate: 5 days.

Course Materials: One administrator guide, two student workbooks, one test book and appropriate media.

Order Number	*Course Package*	*Price*
EY-6722E-MT-B6	1600 BPI Magtape	$719
EY-6722E-SP-B6	Additional Student Package (supports 1 student)	$344

Text-based with media courses

MICRO/RSX UTILITIES AND COMMANDS

Peak performance. Understand the basic dial functions on the RSX system. Learn system management responsibilities, Micro/RSX terminology, operating philosophy, more. Take this prerequisite for high-level RSX courses.

Who will benefit: New RSX users interested in the system management responsibilities.

You'll learn to:
- Move on to description of the Micro/RSX operating philosophy
- Create and use libraries
- Maintain libraries and file directories
- Use the various utilities that handle volume maintenance
- Control the print queue

Prerequisites: Digital's Introduction to Computer Systems or Introduction to the PDP-11.
System requirements: Access to Micro-RSX-11M V3.0 or higher operating system with FORTRAN-88 V5 or FORTRAN V2.5.
Time estimate: 5 days.

Course Materials: One administrator guide, one student workbook, one test book and appropriate media.

Order Number	*Course Package*	*Price*
EY-6724E-RX-B6	RX50 Floppy	$719
EY-6724E-TK-B6	TK50 Tape	$719
EY-6724E-SP-B6	Additional Student Package (supports 1 student)	$344

Text-based with media courses

RSX SYSTEM

RSX-11-M-PLUS SYSTEM MANAGEMENT

Expand your knowledge. Cover the basics like generation and tailoring to meet specific needs. Learn methods of determining and implementing a particular RSX-11M-PLUS environment.
Apply info and techniques related.

Who will benefit: Current or prospective system manager of RSX-11M-PLUS systems and anyone interested in expanding their understanding of the RSX operating environment.

You'll learn to:
- Understand the system generation process and how it is implemented by the manager
- Create and control accounts
- Control system start-up and shut-down
- Manipulate the queue subsystem for particular site needs
- Collect information about device errors
- Generate a crash dump

Prerequisites: Digitals Introduction to Computer Systems and RSX Utilities and Commands courses or equivalent knowledge and experience.
System requirements: None.
Time estimate: 10 days.

Course Materials: One administrator guide, one student workbook and one test package.

Order Number	*Course Package*	*Price*
EY-6731E-PR-B6	Course Package	$906


Text-based with media courses

INTRODUCTION TO PDP—11

Start with the necessary fundamentals. Discover the characteristics and concepts all PDP-11 minicomputers share, instruction set and addressing modes help you write simple programs. Gets you going and up to speed fast.

Who will benefit: Maintenance engineers and technicians, terminal technicians and interfacing engineers.

You'll learn to:
- Write simple programs
- Gain insight on concepts
- Use the operator's console
- Identify the elements of the PDP-11 organization block diagram

Prerequisites: Digital's Introduction to Computer Systems or equivalent knowledge and experience.
System requirements: None.
Time estimate: 10 days.

Course Materials: Fifteen videocassettes, one manager guide and one set of student workbooks, tests, evaluation sheets and reference manual.

Order Number	*Course Package*	*Price*
EY-1729E-VH-B6	VHS	$5,744
EY-1729E-VU-B6	Umatic	$5,744
EY-1729E-VA-B6	Additional Manager Guide	$69
EY-1729E-VS-B6	Additional Student Package (supports 1 student)	$206



Video-based courses

MACRO-11

Assembling the assembly language made clear. Create programs employing all the major features of the MACRO-11. Learn to program problems in the form of easily manipulated modules. Write programs that use terminal I/O.

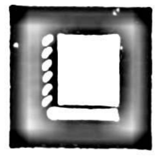
Who will benefit: Assembly language applications programmers and system programmers.

You learn to:
- Create MACRO-11 programs employing all the major features of the MACRO-11 programming language and assembler
- Take a problem description and program the problem in the form of easily manipulated modules using the following techniques: subroutines, MACROS, co-routines and re-entrant code
- Write MACRO-11 programs that use terminal I/O
- Debug MACRO-11 programs

Prerequisites: Knowledge of the concepts of minicomputer organization and programming equivalent to that provided in Digital's Introduction to Computer Systems. Also a knowledge of PDP-11 organization and programming equivalent to Digital's PDP-11 Assembly Language Programming course. Additionally, a familiarity with the RSX-11M operating system to the level of Digital's RSX Utilities and Commands courses.
System requirements: Access to a PDP-11 system to complete the practical projects in the course.
Time estimate: 5 days.

Course Materials: One volume containing 20 separate modules and an administrator guide.

Order Number	*Course Package*	*Price*
EY-DC025E-PR-B6	Course Package	$181


Text-based courses

RSX SYSTEM

PROGRAMMING RSX-11M IN MACRO

Facilitate your knowledge of facilities. Here's how. In depth. Emphasizes writing programs in the RSX-11M environment and using executive directives. Learn to manage resources like tasks memory and the CPU.

Who will benefit: Application and system programmers.

You'll learn to:
- Use executive directives
- Perform intertask communications and coordination
- Perform synchronous and asynchronous I/O operations
- Use overlays
- Use memory management facilities to communicate between tasks and make more effective use of available memory
- Use File Control Services to create and maintain files

Prerequisites: Digital's Introduction to Computer Systems or equivalent knowledge and experience.
System requirements: Access to an RSX-11M system with hardcopy printer and a suitable terminal.
Time estimate: 5 days.

Course Materials: A student package of workbook, tests and exercises and an administrator package containing a guide and nine-track, 1600 magtape.

Order Number	*Course Package*	*Price*
EY-0060E-SP-B6	Course Package	$344
EY-0060E-PS-B6	Additional Student Package (supports 1 student)	$137

Text-based with media courses

PROGRAMMING RSX-11M IN FORTRAN

Use the facilities of the RSX-11M to best advantage. Write programs in the RSX-11M environment and use executive directives to manage resources.
Course highlights perform I/O under features, managing memory and file I/O

Who will benefit: Application and system programmers.

You'll learn to:
- Compile and build executable tasks from FORTRAN programs
- Write programs using overlays
- Write programs using executive services
- Cause tasks to communicate with each other
- Use the file system

Prerequisites: Digital's Introduction to Computer Systems and Introduction to the PDP-11 or equivalent knowledge and experience. Familiarity with the RSX-11M operating system and able to log in/log off and edit files on the system. These skills covered in Digital's FORTRAN or equivalent knowledge and experience.
System requirements: Access to an RSX-11M system with hardcopy printer and a suitable terminal.
Time estimate: 5 days.

Course Materials: Two student workbooks, one book of tests and exercises, one administrator guide and one administrator magtape (1600 BPI, nine track).

Order Number	*Course Package*	*Price*
EY-0061E-SP-B6	Course Package	$344
EY-0060E-PS-B6	Additional Student Package (supports 1 student)	$137

Text-based courses

PROGRAMMING DECnet-RSX

Write programs that can communicate with programs on other network nodes. Quickly and easily. Plus, learn about remote file access and task-to-task communication techniques. See helpful FORTRAN code examples in the workbook.

Who will benefit: Application and system programmers.

You'll learn to:
- Describe the functions, applications, and interfaces in the DECnet-RSX product
- Describe the sequences of events that take place when one network task establishes communication with another
- Describe the types of access control information used when performing network communications
- Write or modify programs that perform intertask communications using RSX utilities and system directives

Prerequisites: Know how to program FORTRAN on MACRO—11 in an RSX environment as well as be familiar with computer networks and/or communications: Digital's Programming RSX-11M in FORTRAN/MACRO or PROGRAMMING RSX-11M-PLUS in FORTRAN/MACRO; Introduction to Data Communications.
System requirements: Access to a DECnet network that includes at least two PhaseIV DECnet-RSX nodes.
Recommended: two nodes be used to perform programming exercises to reinforce the concepts presented in this course.
Time estimate: 3 days.

Course Materials: A student guide, written exercises and a test package.

Order Number	*Course Package*	*Price*
EY-6704E-PR-B6	Course Package	$744

Text-based courses

PROGRAMMER PRODUCTIVITY

USING VAX DEC/CMS AND VAX DEC/MMS

Build, design, develop and maintain software systems quickly and easily.
Learn source code management techniques during all stages of the software development lifecycle. Reuse code, track change history, coordinate simultaneous updates automatically.

Who will benefit: Application developers and software engineers in VMS environment.

You'll learn to:
- Identify the benefits of VAX DEC/CMS and VAX DEC/MMS as part of the software development lifecycle
- Use VAX DEC/CMS and VAX DEC/MMS separately or together in the software development process to manage source code and customize systems build
- Use VAX DEC/MMS and VAX DEC/CMS to manage large projects in distributed software environments

Prerequisites: Digital's VMS Utilities and Commands course and one of the VAX programming language courses.
System requirements: Access to a VT100 or VT200 series terminal attached to a VAX running VMS 4.0 or higher.
Time estimate: 1 day.

Course Materials: Appropriate media, an administrator guide, installation procedures and a student card.

Order Number	*Course Package*	*Price*
EY-8267E-MT-B6	1600 BPI Magtape	$1,106
EY-8267E-RX-B6	RX50 Floppy	$1,106
EY-8267E-TK-B6	TK50 Tape	$1,106
EY-8267E-SP-B6	Additional Student Package (supports 1 student)	$69

Text-based courses

USING THE VAX LANGUAGE SENSITIVE EDITOR

Develop and document software in multiple languages effortlessly. Writing, editing, compiling, review and error correction in a single session.
Become effective in new languages immediately. Customize to your editing environment.

Who will benefit: Software engineers in a software development environment.

You'll learn to:
- Initiate an editing session
- Manipulate language-sensitive templates using keys
- Manipulate language templates using commands
- Compile, review and debug programs
- Customize the editing environment

Prerequisites: VMS Utilities and Commands and its prerequisites.
System requirements: Access to a VT100 or VT200 series terminal and a VAX system with VMS V5. or greater
Time estimate: 4-6 hours

Course Materials: Appropriate media, an administrator guide, an installation guide and ten user cards.

Order Number	*Course Package*	*Price*
EY-3515E-MT-B6	1600 BPI Magtape	$1,106
EY-3515E-RX-B6	RX50 Floppy	$1,106
EY-3515E-TK-B6	TK50 Tape	$1,106
EY-3515E-SP-B6	Additional Student Package (supports 1 student)	$69

Text-based with media courses

AUTOMATED TEXT CONVERSION USING VAX SCAN

Convert or integrate systems or applications. Understand how to use VAX SCAN to extract useful information in differing formats and report or translate this information into a consistent format.

Who will benefit: System programmers, software engineers and application programmers. A must for programmers working with string manipulation procedures and pattern matching operations.

You'll learn to:
- Write SCAN programs
- Use SCAN compiler
- Link and run programs
- Understand the language elements and syntax of the SCAN language including the placement of modules, procedures and macros.
- Apply SCAN to other operations

Prerequisites: Experience in one or more high level languaes.
System requirements: None.
Time estimate: 3 days.

Course Materials: Student workbook containing modules, student guide containing an administrator guide and a post-test.

Order Number	*Course Package*	*Price*
EY-8252E-PR-B6	Course Package	$244

Text-based courses

PROGRAMMER PRODUCTIVITY

USING VAX/VMS SYMBOLIC DEBUGGER

Quickly and easily locate programming errors. And correct them... symbolically. Learn the features. Discover how to control program execution and evaluate expressions. Debug in screen mode. More.

Who will benefit: The experienced programmer who has experience in at least one VAX programming language, and can read and understand a FORTRAN program.

You'll learn to:
- Identify the features and functionality provided by the debugger
- Invoke the debugger help facility
- Use the debugger to examine and change program variables
- Use the debugger to display program source code while debugging a program
- Use the following debugger features while debugging a program: screen mode and keypad input, convenience features

Prerequisites: Digital's VMS System Architecture, Programming in VAX FORTRAN, and any version of the utilizing VMS Features courses or equivalent experience.
System requirements: Access to a VMS 5.0 or later version system with VAX FORTRAN V5.0
Time estimate: 2 days.

Course Materials: One workbook, an administrator guide and course media.

Order Number	*Course Package*	*Price*
EY-2695E-MT-B6	1600 BPI Magtape	$556
EY-2695E-RX-B6	RX50 Floppy	$556
EY-2695E-TK-B6	TK50 Tape	$556
EY-2695E-SP-B6	Additional Student Package (supports 1 student)	$206

Text-based with media courses

PROJECT LIFE CYCLE

Step by step, the structured approach to software development. For planning, managing, controlling. Apply what you learn to any business applications project. Divide projects into manageable phases.

Who will benefit: Applications analysts, developer and project leaders

You'll learn to:
- Structure software development practices

Prerequisites: Programming and project management experience helpful to work through the entire course.
Time estimate: 2 days.

Order Number	*Course Package*	*Price*
EY-CX065-AV-B6	VHS	$431
EY-CX067-AV-B6	Umatic	$431
EY-CX025-RB-B6	Reference Book	$69
EY-CX230-SG-B6	Additional Student Package (supports 1 student)	$31

Text-based courses

DATA MANAGEMENT

INTRODUCTION TO DATA DICTIONARIES

Cover industry standard and non-standard data dictionaries. Their general nature and how to use. Learn common characteristics and major advantages. From A to Z, the concepts, management tools and usage.

Who will benefit: All users who need to perform functions in which a generic understanding of data dictionaries would be useful. Such activities include studies of corporate information resources and requirements, managerial decisions regarding data dictionary implementation, application systems analysis, design or programming and database design.

You'll learn to:
- Describe the common characteristics of data dictionaries
- Identify the major advantages of data dictionaries
- Identify the major uses of data dictionaries within an organization

Prerequisites: A conceptual understanding and familiarity with terms relating to file structure and uses of data in an organization. Experience with programming languages, database systems and hardware configuration is helpful.
Time estimate: 1 day.

Course Materials: Course package includes a student workbook, test package and administrator guide.

Order Number	*Course Package*	*Price*
EY-2698E-PR-B6	Course Package	$431

Text-based courses

VAX COMMON DATA DICTIONARY: MAINTENANCE AND USE

Get the basics for setting up a common data dictionary (VAX CDD).
Helps you establish a working data-base. Find out about the use and management of this cornerstone. Build an efficient and effective database.

Who will benefit: System managers and data administrators who will assume responsibility for the dictionary.

You'll learn to:
- Describe the intent and structure of the common data dictionary
- Create and maintain VAX CDD directories, subdirectories and objects
- Provide directory and object protection using access control lists
- Create and modify simple VAX CDD records and store them as dictionary objects
- Identify and correct dictionary inconsistencies

Prerequisites: Digitals's VMS Utilities and Commands.
System requirements: Access to VMS system. Note: not compatible with CDD/PLus software.
Time estimate: 1-2 days.

Course Materials: An administrator guide, test package, distribution kit with appropriate media and student workbook.

Order Number	*Course Package*	*Price*
EY-2150E-TK-B6	TK-50 Tape	$369
EY-2150E-MT-B6	1600 BPI Matape	$369
EY-2150E-RX-B6	RX50 Floopy	$369
EY-2150E-SP-B6	Additional Student Package (supports 10 students)	$137

Text-based with media courses

DATABASE SYSTEMS CONCEPTS

Establish a good foundation. Address the organization of information into databases. Compare all data management technologies. It's all included.
Learn about it all.

Who will benefit: Programmers and managers who will be involved with the selection and design of a database management system. Anyone who needs a conceptual overview of database techology.

You'll learn to:
- List the different database approaches and give examples
- Define database terms such as DML, DDL and schemas
- List and describe utilities that would be used to support a database
- List and describe different kinds of database access

Prerequisites: Experience in programming or managing a file management system.
System requirements: None.
Time estimate: 5 days.

Course Materials: Student guide and a volume of tests and exercises.

Order Number	*Course Package*	*Price*
EY-3492E-VU-B6	Umatic	$1,619
EY-3492E-VH-B6	VHS	$1,619
EY-3492E-SP	Additional Student Package (supports 1 student)	$69

Text-based courses

DATA MANAGEMENT

VAX SQL PROGRAMMING

Here's how to get up to speed on the standard query language. Familiarize yourself with how VAX SQL deviates from the ANSI/standard. Shorten your learning curve. Brief section on creating and maintaining a database, too.

Who will benefit: Application programmers and developers who will develop ad hoc queries using VAX SQL.

You'll learn to:
- Perform queries on a VAX DSRI database
- Store, modify, erase data in a database
- Code programs and build executable images that access a VAX DSRI database using embedded VAX SQL statements
- Access a VAX DSRI database through VAX DATATRIEVE

Prerequisites: Digital's VMS Utilities and Commands and experience in at least one high-level programming language.
System requirements: None.
Time estimate: 5 days.

Course Materials: Reference manual, users guide, student workbook, administrator guide.

Order Number	*Course Package*	*Price*
EY-6734E-PR-B6	Course Package	$619
EY-6734E-SP-B6	Additional Student Package (supports 1 student)	$344

Text-based courses

VAX DATATRIEVE FOR THE COMPUTER PROFESSIONAL

Custom made for the more sophisticated VAX DATATRIEVE user. Deal with more advanced features. Gain in-depth knowledge to maximize use.
Highlights include organizing, altering, displaying data, collections, more!

Who will benefit: Programmers and other software professionals who are unfamiliar with the basic elements of VAX DATATRIEVE but who are interested in learning how to manipulate data files for ad hoc queries and for simple report writing.

You'll learn to:
- Understand the basic function of VAX Common Data Dictionary (VAX CDD) including dictionary paths, domains and record definitions
- Use the Applications Design Tool (ADT) to create record definitions
- Use DATATRIEVE commands and statements to display, store, modify and erase data
- Write and format simple reports with the VAX DATATRIEVE report writer

Prerequisites: VMS Utilities and Commands. Familiarity with data management concepts.
System requirements: Access to a VMS system running V3.0 or greater with VAX DATATRIEVE V3.0 (earlier versions of VAX DATATRIEVE are acceptable, although some features of the course may only be supported by V3.0).
Time estimate: 3 days.

Course Materials: A student guide and an administrator guide.

Order Number	*Course Package*	*Price*
EY-2642E-PR-B6	Course Package	$556

Text-based courses

IMPLEMENTING DATATRIEVE APPLICATIONS

Gain insight on applications. Get organizational skills needed. Maximize the benefits of VAX DATATRIEVE. Plus - advanced retrieval techniques, report writing and graphics also discussed.

Who will benefit: Application programmers, analysts and other software professionals implementing applications.

You'll learn to:
- Define records, files and domains
- Resturcture data
- Retrieve data using tables, list fields, view domains, cross clause and compound statements
- Create commands and procedures to manage data and produce reports
- Use advanced report writer features
- Use the VAX DATATRIEVE graphics capability
- Access and organize VAX DATATRIEVE files for optimal performance

Prerequisites: Digital's DATATRIEVE for the Computer Professional
System requirements: Access to a VMS system running V4.0 or greater with VAX DATATRIEVE V3.0 (earlier versions are acceptable although some features of the course may only be supported by V3.0).
Time estimate: 3 days.

Course Materials: Administrator guide, a student package and appropriate course media.

Order Number	*Course Package*	*Price*
EY-2644E-RX-B6	RX50 Floopy	$619
EY-2644E-TK-B6	TK50 Tape	$619
EY-2644E-MT-B6	1600 BPI Magtape	$619
EY-2644E-SP-B6	Additional Student Package (supports 1 student)	$206

Text-based with media courses

DATA MANAGEMENT

VAX DATATRIEVE INTERFACE TO VMS

Expert material for the advanced.
Calls to a high-level language, FMS and TDMS, Protection features, maintaining the Common Data Dictionary. Add all the knowledge to sharpen your expertise.

Who will benefit: Programmers.

You'll learn to:

- Customize DATATRIEVE to suit the user environment
- Maintain and use the protection features of the VAX Common Data Dictionary
- Use VAX DATATRIEVE calls within an application program
- Provide for enhanced data entry by using the VAX DATATRIEVE forms interface
- Access remote domains through DECnet and the distributed data manipulation facility (DDMF)
- Access and organize VAX DATATRIEVE files for optimal performance

Prerequisites: Digital's VMS Utilities and Commands, VAX DATATRIEVE Applications courses. Participants of the VAX DATATRIEVE for Programmers computer-based instruction course may also wish to complete this training.

System requirements: Access to a VMS system running V4.0 or greater with VAX DATATRIEVE V3.0 (earlier versions are acceptable although some features of the course may only be supported by V3.0).
Time estimate: 2 days.

Course Materials: Student package and an administrator guide.

Order Number	*Course Package*	*Price*
EY-2643E-PR-B6	Course Package	$494

Text-based courses

VAX DATATRIEVE FOR PROGRAMMERS

Enrich your understanding. Gain indepth knowledge of concept, procedures and principles. Teaches day to day manipulation and information retrieval. Plus the more advanced, technical features.

Who will benefit: Programmers.

You'll learn to:

- Understand the VAX DATATRIEVE environment
- Design and implement VAX DATATRIEVE application routines
- Use the more complex VAX DATATRIEVE structures, features and facilities to manipulate more complex databases

Prerequisites: Digital's VAX DATATRIEVE for Users computer-based instruction course and all its prerequisites. Some capability with computer programming is helpful when studying at this level.
System requirements: Access to a VT100 or VT200 series or equivalent terminal set to emulate a VT100 and VMS V4 or greater.
Time estimate: 3 days.

Course Materials: Installation guide, a student guide and appropriate course media.

Order Number	*Course Package*	*Price*
EY-A417E-RX-B6	RX50 Floppy	$844
EY-A417E-TK-B6	TK50 Tape	$844
EY-A417E-MT-B6	1600 BPI Magtape	$844
EY-A417E-SP-B6	Additional Student Package (supports 10 student)	$94

Computer-based courses

VAX DATATRIEVE FOR USERS

Study concepts, procedures and principles in an easy-to-understand format. Prepare to use VAX DATATRIEVE efficiently. Gives novices the solid foundation needed to learn more about database information.

Who will benefit: Non-technical users.

You'll learn to:

- Describe basic data concepts and their relationship to VAX DATATRIEVE
- Describe basic VAX DATATRIEVE structures and their function
- Describe basic VAX DATATRIEVE features and facilities to manipulate simple databases

Prerequisites: Digital's VMS Utilities and Commands, the Introduction to VMS computer based instruction courses or equivalent experience.
System requirements: Access to a VT100 or VT200 series or equivalent terminal set to emulate a VT100 and VMS V4 or greater.
Time estimate: 1 day

Course Materials: An installation guide, a student guide and appropriate course material.

Order Number	*Course Package*	*Price*
EY-A416E-RX-B6	RX50 Floppy	$719
EY-A416E-TK-B6	TK50 Tape	$719
EY-A416E-MT-B6	1600 BPI Magtape	$719
EY-A416E-SP-B6	Additional Student Package (supports 10 students)	$69

Computer-based courses

DATA MANAGEMENT

VAX DATATRIEVE: ORGANIZING AND PRESENTING INFORMATION

Expand on the features available for non technical users. First, a quick review and then - how to retrieve data.
Sample advanced report writing techniques, graphics, more!

Who will benefit: Non-technical users.

You'll learn to:
- Define records, files and domains
- Retrieve data using value expressions, dictionary and domain tables, list fields, compound statements, view domains and the cross clause
- Use basic report writing techniques and more advanced features including control groups, the choice statement, hierarchical records
- Use the VAX DATATRIEVE graphics capability

Prerequisites: Basic understanding of VMS and the Digital Command Language (DCL) to the level presented in VAX DATATRIEVE for Users course.
System requirements: Access to a VMS system running V3.0 or greater (earlier versions of VAX DATATRIEVE are acceptable although some features of the course may only be supported by V3.0)
Time estimate: 2 days.

Course Materials: A student package, an administrator guide and appropriate course media.

Order Number	*Course Package*	*Price*
EY-2645E-RX-B6	RX50 Floppy	$494
EY-2645E-TK-B6	TK50 Tape	$494
EY-2645E-MT-B6	1600 BPI Magtape	$494
EY-2645E-SP-B6	Additional Student Package (supports 1 student)	$206

Text-based with media courses

VAX ACMS SYSTEM MANAGEMENT AND OPERATIONS

Perform all functions in support of VAX ACMS. From ACMS installation and terminal management to system and application monitoring.

Who will benefit: System managers.

You'll learn to:
- Install ACMS and verify that installation
- Use the system operator commands to start, stop and monitor VAX ACMS applications
- Perform terminal and user authorization functions under VAX ACMS
- Diagnose and correct VAX ACMS - related problems

Prerequisites: Digital's VMS System Management I or equivalent experience.
System requirements: Access to: a VAX-11/730 or larger computer with sufficient disk space for installation of VAX ACMS; a VT100 or VT200 series terminal; an RL02, RA60, or RK07 disk drive or a 9-track 1600 magtape drive.
Time estimate: 1-2 days.

Course Materials: A student guide and administrator guide.

Order Number	*Course Package*	*Price*
EY-A892E	Course Package	$206

Text-based courses

VAX TDMS SYSTEM MANAGEMENT

Gain an informative and task-oriented overview of the terminal data management system. Learn goals, structure and philosophy. Address system management consideration for VAX TDMS.

Who will benefit: Programmers, system analysts and system designers.

You'll learn to:
- Identify and briefly describe the major components of the VAX TDMS system
- Describe the TDMS VAX Application Development Process

Prerequisites: Digital's VMS System Management course.
System requirements: VAX running VMS V4.0 and VAX-11 COBOL V2; also VAX TDMS Summary Description and an Installation Guide. A subject matter expert may be needed.
Time estimate: 1 day.

Course Materials: Student guide, tests and exercises, and an administrator guide.

Order Number	*Course Package*	*Price*
EY-1469E-PO-B6	Course Package	$244

Text-based courses

DATA MANAGEMENT

IMPLEMENTING A DATABASE MANAGEMENT SYSTEM

Get an overview, address the issues so successful implementation can occur. Choosing the right projects, designing and installing, adding applications and planning for growth. Everything you need to know.

Who will benefit: Corporate management, data processing management and end users.

You'll learn to:
- Design a database
- Create a database
- Maintain a database utilizing backup, restore integrity and protection features

Prerequisites: Some understanding of database management concepts and requirement.
System requirements: None.
Time estimate: 3-4 hours.

Course Materials: One 30-minute videocassette and a reference book

Order Number	*Course Package*	*Price*
EY-1115E-VH-B6	VHS	$344
EY-1115E-VU-B6	Umatic	$344
EY-1115E-RB-B6	Reference Book	$31

VIDEO *Video-based courses*

UNDERSTANDING DATABASE MANAGEMENT

Stay in the lead. Gain better control of resources. Learn all about a crucial software product. Easy to understand - from a non-technical perspective.
Explore database capabilities. Case studies reinforce.

Who will benefit: Programmers, database administrators, systems managers.

You'll learn to:
- Understand the concepts and principles of database management
- Understand the role of database management in a business environment

Prerequisites: None.
System requirements: None.
Time estimate: 4-6 horus.

Course Materials: Two 60-minute videocassettes and a reference book.

Order Number	*Course Package*	*Price*
EY-AX074-VH-B6	VHS	$344
EY-AX073-VU-B6	Umatic	$344
EY-AX034-RB-B6	Reference Book	$31

VIDEO *Video-based courses*

INTRODUCTION TO THE VAX FMS FORM DRIVER

Spend a little time, become familiar with VAX FMS and shorten the learning curve. Create application programs with ease. Implement User Action Routines for complex help procedures and routines.

Who will benefit: Applications programmers who are proficient in a high level language.

You'll learn to:
- Execute VAX FMS start-up procedure and display one or more forms from a library
- Control terminal displays
- Use scrolled screen display areas to present data
- Use named data sections of a form to simplify programming
- Implement User Action Routines (UAR) to provide more complex help procedures and routines

Prerequisites: Knowledge of a VMS high level programming language.
System requirements: Access to a VT100 or VT200 series terminal in a standard VAX configuration running VMS V5.0 or greater.
Time estimate: 1-2 hours.

Course Materials: Six self-contained modules on one magtape (1600 BPI) and a course guide.

Order Number	*Course Package*	*Price*
EY-A882E-RX-B6	RX50 Floppy	$494
EY-A882E-TK-B6	TK50 Tape	$494
EY-A882E-MT-B6	1600 BPI Magtape	$494
EY-A882E-SP-B6	Additional Student Package (supports 10 students)	$94

Computer-based courses

LANGUAGES

VAX COBOL

Learn COBOL programming language with ease. Receive special attention in language and programming techniques. Emphasis on VAX implementation of COBOL as well. Look forward to mastering it soon.

Who will benefit: Programmers and beginning COBOL programmers.

You'll learn to:
- Write COBOL programs using a structured approach
- Perform input and output operations on sequential and indexed files
- Create and access tables
- Perform interprogram communications

Prerequisites: Digital's VMS Utilities and Commands and VMS System Architecture.
System requirements: Access to a VMS system with VAX COBOL V3 or greater installed.
Time estimate: 3-5 days.

Course Materials: VAX COBOL Student Guide, an Introduction to COBOL Test Package, a VAX COBOL Test Package, an Introduction to COBOL Administrator Guide, a VAX COBOL Administrator Guide and appropriate course media.

Order Number	*Course Package*	*Price*
EY-3493E-TK-B6	TK50 Tape	$556
EY-3493E-RX-B6	RX50 Floppy	$556
EY-3493E-MT-B6	1600 BPI Magtape	$556
EY-2695E-SP-B6	Additional Student Package (supports 1 student)	$206

Text-based with media courses

VAX BASIC

Get the basics. Learn to use BASIC to write application programs on a VMS system. Highlights to look for - defining and processing numeric and character string data, conditional statement execution, using arrays, sequential file access, functions, sub programs

Who will benefit: Anyone interested in learning VAX BASIC and beginning BASIC programmers.

You'll learn to:
- Write applications in VAX BASIC

Prerequisites: Access and perform program development on a VMS operating system and be familiar with the essential concepts of programming.
System requirements: Access to a VMS system with a BASIC compiler.
Time Estimate: 5 days.

Course Materials: Fundamentals of the BASIC Language, VAX BASIC Language Features and an Administrator Guide.

Order Number	*Course Package*	*Price*
EY-A421E-TK-B6	TK50 Tape	$494
EY-A421E-RX-B6	RX50 Floppy	$494
EY-A421E-MT-B6	1600 BPI Magtape	$494
EY-A421E-SP-B6	Additional Student Package (supports 1 student)	$344

Text-based with media courses

LESSONS ON Ada

Look forward to a comprehensive introduction to the ANSI/standard Ada programming. 27 lessons in all - from basic through advanced concepts. Interactive examples and exercises. Detailed messages for optimum use of Ada.

Who will benefit: Programmers who plan to program in Ada.

You'll learn to:
- Understand the ANSI/standard Ada programming language

Prerequisites: Programming experience in a high-level language such as PL/1, PASCAL or FORTRAN.
System requirements: Access to a VAX system running VMS V4.0 through V4.7 or a Micro VAX running Micro VMS V4.0 through V4.7, a VT241 color monitor or VT240 monochrome monitor and an Ada run-time library (FILE ADARTL. EXE) directory SYS$SHARE
Time estimate: 6 days.

Course Materials: One student package, one installation guide, one administrator guide and appropriate course media.

Order Number	*Course Package*	*Price*
EY-3431E-TK-B6	TK50 Tape	$2,056
EY-3431E-RX-B6	RX50 Floppy	$2,056
EY-3431E-MT-B6	1600 BPI Magtape	$2,056
EY-3431E-SP-B6	Additional Student Package	$69

Text-based with media courses

OFFICE APPLICATION

OFFICE AUTOMATION

Improve performance and productivity. Learn the concepts and technologies that introduce "how". View cost issues, office operations and internal control issues to gain insight. Use newly acquired knowledge to increase efficiency almost immediately.

Who will benefit: Business professionals who have little computer experience.

You'll learn to:
- Use office automation to increase efficiency
- Manage an automated office

Prerequisites: Working knowledge of office activities and management.
System requirements: None.
Time estimate: 3-4 hours.

Course Materials: One 40-minute videocassette and a reference book.

Order Number	*Course Package*	*Price*
EY-0082E-VH-B6	VHS	$306
EY-0082E-VU-B6	Umatic	$306
EY-0082E-RB-B6	Reference Book	$31

VIDEO *Video-based courses*

OFFICE AUTOMATION IMPLEMENTATION

Improve office productivity. Investigate the methodology for supporting the planning process. See how the changeover should be designed. Gain insight into how office workers play an important role in planning, implementating successful automation.

Who will benefit: Business professionals with little computer experience.

You'll learn to:
- Understand the relationship between automation and productivity
- Understand office automation issues and concerns
- Develop an office automation implementation plan

Prerequisites: Basic knowledge of office automation technology and office automation management issues.
System requirements: None.
Time estimate: 3-4 hours.

Course Materials: One 35-minute videocassette and reference book.

Order Number	*Course Package*	*Price*
EY-1383E-VH-B6	VHS	$344
EY-1383E-VU-B6	Umatic	$344
EY-1383E-RB-B6	Reference Book	$31

VIDEO *Video-based courses*

LEARNING MS-WINDOWS IN A PCSA/PC ENVIRONMENT

Focus on practical demonstrations of several MS-Window applications. MS-Notepad, Clipboard, Paint to name a few. Also "how to access" an emulator using the VT330, copy data betwen applications, add prints and MS-DOS commands discussed.

Who will benefit: Individuals requiring PC workstation capabilities.

You'll learn to:
- Execute certain MS-DOS commands
- Run applications in the background of main memory
- Display applications in multiple windows
- Transfer data between multiple windows
- Make applications into icons
- Close applications
- Create files
- Save files on current and different drives

Prerequisites: None, however, a basic knowledge of MS-DOS commands is recommended.
System requirements: Access to a PC in a networked environment.
Time estimate: 3 hours.

Course Materials: One student workbook.

Order Number	*Course Package*	*Price*
EY-8268E-PR-B6	Course Package	$169

Text-based courses

OFFICE APPLICATION

INTRODUCTION TO WORD PROCESSING

Increase your productivity. Take your first step toward greater efficiency.
Learn the basic operation of Digital's system. From formatting to creating a document to DECmate function keys, everything you need to know - and to get you up to speed.

Who will benefit: All who desire to learn basic word processing applications on Digital's word processing systems.

You'll learn to:
- Create, edit, format and print a finished copy, integrating all skills covered in the course modules

Prerequisites: None.
System requirements: Access to DECmate II or II system and basic word processing software. V1.6 or greater required.
Time: 1-3 hours.

Course Materials: DECmate Introduction to Word Processing diskettes and user card.

Order Number	*Course Package*	*Price*
EY-1099E-CS-B6	Course Package	$69

Computer-based courses

INTRODUCTION TO ADVANCED WORD PROCESSING

Use simulations of the word processing software in this tutorial course.
Gain key information on advanced features. Quickly become competent with all the tools at hand. Apply all you've learned easily by the end of the course.

Who will benefit: All who desire to learn advanced word processing applications on Digita's word processing systems.

You'll learn to:
- Use all advanced applications of word processing covered in the course content in an actual work situation

Prerequisites: Digital's Basic Word Processing.
System requirements: Access to a standard DECmate system and word processing software.
Time estimate: 1-3 hours.

Course Materials: Introduction to Advanced Word Processing floppy diskettes, Introduction to Advanced Word Processing user card.

Order Number	*Course Package*	*Price*
EY-1489E-CS-B6	Course Package	$69

Computer-based courses

VAX TOUCH TYPE

Acquire touch type skills while you use a VAX/VMS. Pair features of the VT100 terminal with advanced video option. Develop speed, accuracy. Over 60 computer-managed exercises help make it easy and fast. Take speed test at end. Be surprised!

Who will benefit: All business professionals who wish to learn proper typing techniques.

You'll learn to:
- Position fingers correctly on the keyboard
- Type the keys with the correct fingers
- Use right and left shift keys correctly
- Increase accuracy and speed

Prerequisites: None.
System requirements: Access to VAX/VMS V5.
Time estimate: 3-5 hours.

Course Materials: TK50 or magtape with student guide.

Order Number	*Course Package*	*Price*
EY-8283E-TK-B6	TK50 Tape	$619
EY-8283E-MT-B6	1600 BPI Magtape	$619
EY-8283E-SP-B6	Additional Student Package (supports 1 student)	$69

Computer-based courses

OFFICE APPLICATION

DECtalk APPLICATION DEVELOPMENT GUIDE

Voice response applications made easy. Develop applications that provide access to computer-based information through a touch-tone phone using the DECtalk family of products. Discover the future of DECtalk applications - at your fingertips.

Who will benefit: Application developers, programmers and system analysts who develop applications using the DECtalk speech synthesizer.

You'll learn to:
- Develop an application using the DECtalk speech synthesizer
- Use the sample software to serve as a model for specific application
- Create and format menus for a telephone-based application
- Use linguistic techniques to make text sound more intelligible and pleasant

Prerequisites: Familiarity with DECtalk DTC03 or DECtalk DTC01 owner's manual.
System requirements: DECtalk properly installed and properly cabled and tested. Terminal line chracteristics appropriate set. Host line should match DECtalk line speeds.
Time estimate: 3 days.

Course Materials: A user manual, a sample application programs guide and media.

Order Number	*Course Package*	*Price*
EY-6727E-MT-B6	1600 BPI Magtape	$1,619
EY-6727E-TK-B6	TK50 Tape	$1,619

Text-based with media courses

INTRODUCTION TO POSTSCRIPT PROGRAMMING

See the basic concepts for PostScript language on this video tutorial. Learn how programs are written and executed. Use the student guide as intro to each module. Exercises follow to reinforce all you learn! Get ready to execute graphics and text.

Who will benefit: Application users and graphic designers who would like to write more effective PostScript code.

You'll learn to:
- Write programs using the PostScript language
- Understand and manipulate the Current Transformation Matrix (CTM)
- Use path construction and painting operators to create and paint lines and shapes
- Write programs that create text in a variety of font styles
- Manipulate the graphics state parameters
- Use the stack model for PostScript code processing
- Write user prologues containing definitions and procedures for writing efficient PostScript code

Prerequisites: Be proficient in using a text editor and understand basic programming concept. These skills may be acquired by taking Digital's Introduction to Computer Systems and Introduction to EDT.
System requirements: A videocassette player, monitor and for practice sessions, access to a PostScript interpreter.
Time estimate: 2-3 days.

Course Materials: Student guide and two videocassettes.

Order Number	*Course Package*	*Price*
EY-8290E-VH-B6	VHS	$1,969
EY-8290E-VU-B6	Umatic	$1,969
EY-8290E-SP-B6	Additional Student Package (supports 1 student)	$275

VIDEO

Video-based courses

OFFICE APPLICATION

INTRODUCTION TO COMPUTERS IN BUSINESS

Use the computer as management tool. Take this course and see how.
Get a non-technical overview look at computers from the business prespective.
Learn the fundamental concepts, principles and terminology necessary to increase efficiency.

Who will benefit: Business professionals who have little computer experience.

You'll learn to:
- Apply the principles and terminology used in an industry
- Understand the basic hardware and software components which support basic computer functions
- Increase efficiency by using computers in a variety of applicatons

Prerequisites: Some office or business experience.
System requirements: None.
Time estimate: 2-3 hours.

Course Materials: One 25 minute video-cassette and reference book.

Order Number	*Course Package*	*Price*
EY-0031E-VH-B6	VHS	$181
EY-0002E-RB-B6	Reference Book	$31

VIDEO *Video-based courses*

COMPUTER APPLICATIONS IN BUSINESS

Put computers in diverse environments to the success test. Learn how ten companies were affected by the acquisition of computers. See diverse applications from banking to manufacturing. Discover easy, cost effective guidelines to help companies profit.

Who will benefit: Business professionals who have little computer experience.

You'll learn to:
- Understand how computer use varies among industries
- Learn various computing applications
- Understand the process of business system analysis
- Develop practical guidelines for: acquiring a computer system, determining your needs for the right choice, evaluating the cost-effectiveness of computerization

Prerequisites: Some office or business experience.
System requirements: None.
Time estimate: 3-4 hours.

Course Materials: One 45-minute video-cassette and reference book.

Order Number	*Course Package*	*Price*
EY-0032E-VH-B6	VHS	$306
EY-0032E-VU-B6	Umatic	$306
EY-0032E-RB-B6	Reference Book	$31

VIDEO *Video-based courses*

COMPUTER GRAPHICS IN BUSINESS

Discover the benefits. See how computer generated graphics are used to interpret business data. Help when making management decisions.
Improve business communications - and save time and money.

Who will benefit: Business professionals who have little computer experience.

You'll learn to:
- Select the software that's best for your needs
- Understand a wide range of computer graphics, their uses and benefits
- Have a working knowledge of computer graphics hardware and software

Prerequisites: Some business communication experience.
System requirements: None.
Time estimate: 2-3 hours.

Course Materials: One 45-minute video-cassette and reference book.

Order Number	*Course Package*	*Price*
EY-1075E-VH-B6	VHS	$344
EY-1075E-VU-B6	Umatic	$344
EY-1075E-RB-B6	Reference Book	$31

VIDEO *Video-based courses*

ARTIFICIAL INTELLIGENCE

AN INTRODUCTION TO ARTIFICIAL INTELLIGENCE

Add AI skills to your expertise. Here's the perfect introduction and prerequisite for getting it right. Start with a general overview of concepts. Move on to three structured instructional modules - Expert systems, Languages and Tools and Practical Applications.

Who will benefit: Managers, software developer and other individuals interested in the fundamentals of applied artificial intelligence technology.

You'll learn to:
- Understand the differences between developing conventional systems and Expert Systems
- Understand the two components of an Expert system - the knowledge base and the inference engine
- Identify some of the tools used to build Expert Systems
- Understand why LISP and PROLOG are more suitable for AI than BASIC or FORTRAN

Prerequisites: None.
System requirements: None.
Time estimate: 1 day.

Corse materials: Five videotapes and student reference guides (supports 10 students).

Order Number	*Course Package*	*Price*
EY-3432E-VH-B6	VHS	$1,369
EY-3432E-VU-B6	Umatic	$1,369
EY-3432E-SP-B6	Additional Student Package (supports 10 students)	$244

VIDEO

Video-based courses

VAX OPS5

Ready, set, this AI tutorial instructs new users in the building of production systems with Digital's product.
Concentrate on OPS5 in the context most widely used expert systems' application. Complete intro, application and programming coverage, too.

Who will benefit: New VAX OPS5 users and programmers.

You'll learn to:
- List guidelines for identifying the problems suitable for OPS5
- Identify the components of the OPS5 system architecture and the action of the recognize-act cycly
- Write, compile and debug an OPS5 program
- Identify properties of problems solved by Expert Systems
- Identify steps and major issues of building Expert Systems with OPS5
- Write a small production system prototype using OPS5

Prerquisites: Working knowledge of the VMS operating system and experience with a programming language other than OPS5.
System requirement: Access to a VMS system running VMS V4.0 or greater with VAX OPS5 V2.2 installed or a MicroVax system running V4.7 with VAX OPS5 installed.
Time estimate: 3-5 days.

Course Materials: Student package containing two volumes, VAX OPS5 documentation and appropriate media.

Order Number	*Course Package*	*Price*
EY-8284E-MT-B6	1600 BPI Magtape	$1,369
EY-8284E-RX-B6	RX50 Floppy	$1,369
EY-8284E-TK-B6	TK50 Tape	$1,369
EY-8284E-SP-B6	Additional Student Package (supports 1 student)	$494

Text-based with media courses

WORKSTATIONS

GETTING STARTED ON VMS WORKSTATIONS: STANDALONE SYSTEMS

Cover everything you need to know. Start-up and shut down the system. Learn how to install software. Work in a windowing environment. Go on to open and manipulate windows, edit and manipulate files. Even start-up on DECnet included.

Who will benefit: new VAXstation users working in a window environment.

You'll learn to:
- Install software in a windowing environment
- Use a mouse to open and manipulate windows
- Edit and manipulate files in a VMS operating environment
- Start-up on DECnet and check the connection

Prerequisites: Digital's Introduction to Computer Systems or have an understanding of the function of basic computer components, as well as the difference between various types of files.
System requirements: access to a VAXstation II or VAXstation II/RC or VAXstation II/GPX or VAXstation 2000.
Time estimate: 4 days.

Course Materials: A student guide and an administrator guide.

Order Number	*Course Package*	*Price*
EY-8280E-RX-B6	RX50 Floppy	$869
EY-8280E-TK-B6	TK50 Tape	$869

Text-based with media courses

GETTING STARTED ON VMS WORKSTATIONS: LOCAL AREA VAXcluster SYSTEMS

Learn your way around the VAXstation. Quickly, easily develop skills. Start up, shut down. Install software. Use removable storage media. Edit files with EDT and set up option on the workstation options menu.

Who will benefit: New VAXstation users working in a windowing environment.

You'll learn to:
- Use the mouse to open and manipulate windows
- Execute common usage by basic DCL commands
- Use the set-up option on the workstation's options menu

Prerequisites: Digital's Introduction to Computer Systems or have equivalent knowledge of the function of the basic computer components.
System requirements: Access to a VAXstation II, VAXstation II/RC, VAXstation II/GPX or VAXstation 2000.
Time estimate: 4 days.

Course Materials: A student guide and an administrator guide.

Order Number	*Course Package*	*Price*
EY-8281E-RX-B6	RX50 Floppy	$869
EY-8281E-TK-B6	TK50 Tape	$869

Text-based with media courses

PROGRAMMING WITH GKS

Get the solid background needed with this introduction to the VAX GKS graphics interface. Concentrate on how to write programs that perform many of the functions. Even explore the difference between the use of windows and viewports.

Who will benefit: New VAXstation users in a windowing environment.

You'll learn to:
- Integrate GKS function calls into FORTRAN, PASCAL, C programs
- Write routines that use GKS control, output, inquire and input functions
- Generate graphics and text

Prerequisites: Knowledge of VMS or MicroVMS file structures and user level commands to write in a high level language.
System requirements: Access to a VAXstation II, VAXstation II/GPX running VMS 4.6.
Time estimate: 3 days.

Course Materials: One student workbook in two volumes and appropriate media.

Order Number	*Course Package*	*Price*
EY-8266E-MT-B6	1600 BPI Magtape	$844
EY-8266E-RX-B6	RX50 Floppy	$844
EY-8266E-TK-B6	TK50 Tape	$844
EY-8266E-SP-B6	Additional Student Package (supports 1 student)	$281

Text-based with media courses

מרכז להתמחות והעשרה בטכנולוגית המידע
מרכז הדרכה